

Appendix D: Teacher Survey Findings, 1998-2001 CCTT

Mean

	TIME		
	1.00	2.00	Total
Q5. Years Participating in Project	.76	2.36	1.28
Q7. Hours Per Week Using Tech Center	2.69	4.16	3.20
Q8. Video Equip Available Hrs per Week	7.99	12.82	9.60
Q8. Computer Equip Available Hrs per Week	11.66	14.58	12.70
Q8. Laser Disc Equip Available Hrs per Week	5.79	11.83	7.24
Q8. Other Equip Available Hrs per Week	12.90	12.50	12.73
Q9. Hrs Per Month Partic In Proj Mtgs	4.07	2.47	3.52
Q9. Hrs Per Month Plan or Dev Instr Activities	12.89	12.07	12.61
Q9. Hrs Per Month Become Fam with Tech	9.22	9.02	9.15
Q9. Hrs per Month Helping Students	4.06	4.72	4.28
Q9. Hrs Per Month Other Activities	5.21	18.00	8.70

Several measures showed an increase from last year to this one. Only one was statistically significant, however, the hours per month spent in project meetings.

TIME * Q6. Technology-Related Prof Dev Hrs Crosstabulation

			Q6. Technology-Related Prof Dev Hrs				Total
			0-30 hours	31-50 hrs	51-70 hrs	over 70 hours	
TIME	1.00	Count	262	27	19	39	347
		% within TIME	75.5%	7.8%	5.5%	11.2%	100.0%
	2.00	Count	118	34	9	17	178
		% within TIME	66.3%	19.1%	5.1%	9.6%	100.0%
Total		Count	380	61	28	56	525
		% within TIME	72.4%	11.6%	5.3%	10.7%	100.0%

The results show an statistically significant increase in the percentage of teachers receiving 31-50 technology related professional development hours and a decrease in the percentage of teachers receiving less than 30 hours.

TIME * Q8. Video Equipment Available Crosstabulation

			Q8. Video Equipment Available		Total
			No	Yes	
TIME	1.00	Count	145	222	367
		% within TIME	39.5%	60.5%	100.0%
	2.00	Count	58	123	181
		% within TIME	32.0%	68.0%	100.0%
Total		Count	203	345	548
		% within TIME	37.0%	63.0%	100.0%

While there was an increase in the percentage of teachers saying video equipment was available to them, the increase was not statistically significant.

TIME * Q8. Computer Equipment Available Crosstabulation

			Q8. Computer Equipment Available		Total
			No	Yes	
TIME	1.00	Count	136	232	368
		% within TIME	37.0%	63.0%	100.0%
	2.00	Count	47	134	181
		% within TIME	26.0%	74.0%	100.0%
Total		Count	183	366	549
		% within TIME	33.3%	66.7%	100.0%

There was a statistically significant increase in the percentage of teachers reporting computer equipment being available to them.

TIME * Q8. Laser Disc Equipment Available Crosstabulation

			Q8. Laser Disc Equipment Available		Total
			No	Yes	
TIME	1.00	Count	291	75	366
		% within TIME	79.5%	20.5%	100.0%
	2.00	Count	141	40	181
		% within TIME	77.9%	22.1%	100.0%
Total		Count	432	115	547
		% within TIME	79.0%	21.0%	100.0%

There was a small increase in the percentage of teachers reporting laser disc equipment available to them, but the increase was not statistically significant.

TIME * Q8. Other Equipment Available Crosstabulation

			Q8. Other Equipment Available		Total
			No	Yes	
TIME	1.00	Count	336	30	366
		% within TIME	91.8%	8.2%	100.0%
	2.00	Count	156	25	181
		% within TIME	86.2%	13.8%	100.0%
Total		Count	492	55	547
		% within TIME	89.9%	10.1%	100.0%

There was a statistically significant increase in the percentage of teachers reporting that other equipment was available to them.

TIME * Q10. Students Use Drill and Practice Crosstabulation

			Q10. Students Use Drill and Practice		Total
			Yes	No	
TIME	1.00	Count	121	173	294
		% within TIME	41.2%	58.8%	100.0%
	2.00	Count	78	78	156
		% within TIME	50.0%	50.0%	100.0%
Total		Count	199	251	450
		% within TIME	44.2%	55.8%	100.0%

There was a slight increase in the percentage of teachers reporting their students using computers for drill and practice but that increase was not statistically significant.

TIME * Q10. Students Use Basic Auth Apps Crosstabulation

			Q10. Students Use Basic Auth Apps		Total
			Yes	No	
TIME	1.00	Count	100	174	274
		% within TIME	36.5%	63.5%	100.0%
	2.00	Count	63	77	140
		% within TIME	45.0%	55.0%	100.0%
Total		Count	163	251	414
		% within TIME	39.4%	60.6%	100.0%

There was a slight increase in the percentage of teachers reporting their students using basic authoring applications, but that increase was not statistically significant.

TIME * Q10. Students Use Advanced Authoring Apps Crosstabulation

			Q10. Students Use Advanced Authoring Apps		Total
			Yes	No	
TIME	1.00	Count	49	207	256
		% within TIME	19.1%	80.9%	100.0%
	2.00	Count	26	108	134
		% within TIME	19.4%	80.6%	100.0%
Total		Count	75	315	390
		% within TIME	19.2%	80.8%	100.0%

There was almost no difference in the percentage of teachers reporting students using advanced authoring applications.

TIME * Q10. Students Use Simulation Software Crosstabulation

			Q10. Students Use Simulation Software		Total
			Yes	No	
TIME	1.00	Count	86	189	275
		% within TIME	31.3%	68.7%	100.0%
	2.00	Count	39	95	134
		% within TIME	29.1%	70.9%	100.0%
Total		Count	125	284	409
		% within TIME	30.6%	69.4%	100.0%

There was a small decrease in the proportion of teachers reporting their students using simulation software, but that decrease was not statistically significant.

TIME * Q10. Students Use CD-ROM research Crosstabulation

			Q10. Students Use CD-ROM research		Total
			Yes	No	
TIME	1.00	Count	113	161	274
		% within TIME	41.2%	58.8%	100.0%
	2.00	Count	71	71	142
		% within TIME	50.0%	50.0%	100.0%
Total		Count	184	232	416
		% within TIME	44.2%	55.8%	100.0%

There was a slight increase in the percentage of teachers reporting their student doing CD-ROM research, but that increase was not statistically significant.

TIME * Q10. Students Use World Wide Web Crosstabulation

			Q10. Students Use World Wide Web		Total
			Yes	No	
TIME	1.00	Count	157	134	291
		% within TIME	54.0%	46.0%	100.0%
	2.00	Count	129	37	166
		% within TIME	77.7%	22.3%	100.0%
Total		Count	286	171	457
		% within TIME	62.6%	37.4%	100.0%

There was an increase in the percentage of teachers reporting their students using the World Wide Web and that increase was statistically significant.

TIME * Q10. Students Use Network Communications Crosstabulation

			Q10. Students Use Network Communications		Total
			Yes	No	
TIME	1.00	Count	100	168	268
		% within TIME	37.3%	62.7%	100.0%
	2.00	Count	87	66	153
		% within TIME	56.9%	43.1%	100.0%
Total		Count	187	234	421
		% within TIME	44.4%	55.6%	100.0%

There was an increase in the percentage of teachers reporting their students using network communications and that increase was statistically significant.

TIME * Q11. How Long Have You Been a Freq User of Tech Crosstabulation

			Q11. How Long Have You Been a Freq User of Tech				Total
			0-3 months	3 mon-1 yr	2-3 yrs	over 3 yrs	
TIME	1.00	Count	41	50	40	214	345
		% within TIME	11.9%	14.5%	11.6%	62.0%	100.0%
	2.00	Count	12	14	17	124	167
		% within TIME	7.2%	8.4%	10.2%	74.3%	100.0%
Total		Count	53	64	57	338	512
		% within TIME	10.4%	12.5%	11.1%	66.0%	100.0%

There was a significant change in the percentage of teachers answering how long they had been a frequent user of technology. The percentage of teachers answering three months to a year decreased significantly and the percentage answering over three years increased significantly.

**TIME * Q12. School Prov Out-of-Class Prep Time for Tech
Crosstabulation**

			Q12. School Prov Out-of-Class Prep Time for Tech		Total
			Yes	No	
TIME	1.00	Count	222	118	340
		% within TIME	65.3%	34.7%	100.0%
	2.00	Count	107	59	166
		% within TIME	64.5%	35.5%	100.0%
Total		Count	329	177	506
		% within TIME	65.0%	35.0%	100.0%

The percentage of teachers reporting that their school provided for out of classroom time for technology remained essentially the same.

TIME * Q13. Level of Technology Skill Crosstabulation

			Q13. Level of Technology Skill				Total
			Entry+Adoption	Adaptation	Appropriation	Invention	
TIME	1.00	Count	96	133	73	47	349
		% within TIME	27.5%	38.1%	20.9%	13.5%	100.0%
	2.00	Count	20	59	52	24	155
		% within TIME	12.9%	38.1%	33.5%	15.5%	100.0%
Total		Count	116	192	125	71	504
		% within TIME	23.0%	38.1%	24.8%	14.1%	100.0%

The percentages of teachers describing their level of technology skill changed from last year to this year. The percentage at the Entry and Adoption level decreased significantly and the percentage at the Appropriation level increased significantly.

TIME * Q14. Pattern of Student Technology Use Crosstabulation

			Q14. Pattern of Student Technology Use				Total
			Irreg-Indiv	Reg-Indiv	Irreg-Group	Reg Indiv+Group	
TIME	1.00	Count	139	27	74	90	330
		% within TIME	42.1%	8.2%	22.4%	27.3%	100.0%
	2.00	Count	45	19	49	44	157
		% within TIME	28.7%	12.1%	31.2%	28.0%	100.0%
Total		Count	184	46	123	134	487
		% within TIME	37.8%	9.4%	25.3%	27.5%	100.0%

The proportions of teachers describing the pattern of student technology use also changed over time. The percentage of teachers describing the student use of technology as Irregular, Individual decreased significantly and the percentage describing the student use as Irregular, Group increased significantly.

TIME * Q17. Student-Computer Ratio Crosstabulation

			Q17. Student-Computer Ratio					Total
			no computer	gt 25:1	bet 25:1 and 10:1	bet 9:1 and 5:1	lower than 5:1	
TIME	1.00	Count	26	77	63	45	93	304
		% within TIME	8.6%	25.3%	20.7%	14.8%	30.6%	100.0%
	2.00	Count	8	19	27	59	59	172
		% within TIME	4.7%	11.0%	15.7%	34.3%	34.3%	100.0%
Total		Count	34	96	90	104	152	476
		% within TIME	7.1%	20.2%	18.9%	21.8%	31.9%	100.0%

The student to computer ratio decreased over the two years. There was a significant decrease in the percentage of teachers reporting a ratio greater than 25:1 and a significant increase in the percentage of teachers reporting a ratio between 9:1 and 5:1.

TIME * Q18. No Printers in the School Crosstabulation

			Q18. No Printers in the School		Total
			No	Yes	
TIME	1.00	Count	368		368
		% within TIME	100.0%		100.0%
	2.00	Count	180	1	181
		% within TIME	99.4%	.6%	100.0%
Total		Count	548	1	549
		% within TIME	99.8%	.2%	100.0%

There was essentially no change in the percentage of teachers reporting no printers in the school.

TIME * Q18. Dot Matrix Printer in Classroom Crosstabulation

			Q18. Dot Matrix Printer in Classroom		Total
			No	Yes	
TIME	1.00	Count	368		368
		% within TIME	100.0%		100.0%
	2.00	Count	169	12	181
		% within TIME	93.4%	6.6%	100.0%
Total		Count	537	12	549
		% within TIME	97.8%	2.2%	100.0%

There was a statistically significant increase in the percentage of teachers reporting having a dot matrix printer in the classroom.

TIME * Q18. Inkjet-Laser Printer in Comp Lab Crosstabulation

			Q18. Inkjet-Laser Printer in Comp Lab		Total
			No	Yes	
TIME	1.00	Count	368		368
		% within TIME	100.0%		100.0%
	2.00	Count	97	84	181
		% within TIME	53.6%	46.4%	100.0%
Total		Count	465	84	549
		% within TIME	84.7%	15.3%	100.0%

There was a statistically significant increase in the percentage of teachers reporting an inkjet or laser printer in their computer lab.

TIME * Q18. Inkjet-Laser Printer in Most Classrooms Crosstabulation

			Q18. Inkjet-Laser Printer in Most Classrooms		Total
			No	Yes	
TIME	1.00	Count	368		368
		% within TIME	100.0%		100.0%
	2.00	Count	73	108	181
		% within TIME	40.3%	59.7%	100.0%
Total		Count	441	108	549
		% within TIME	80.3%	19.7%	100.0%

There was a statistically significant increase in the percentage of teachers having inkjet or laser printers in most classrooms.

Mean

	TIME		
	1.00	2.00	Total
Q15. Pct Students Use Comp In School	54.77	62.53	57.49
Q15. Pct Students Use Comp Outside School	48.73	54.46	50.69
Q15. Dont Know Student Use	39.03	22.50	35.72
Q16a. Pct Tchrs Use Comp in School	70.38	77.66	72.89
Q16a. Pct Tchrs Use Comp Outside School	57.02	62.33	58.74
Q16a. Dont Know Teacher Use	30.83	22.00	29.25
Q16b. Pct Time is Unreimb Non-Sch Time	59.62	52.67	57.10
Q21. How Effectively Trained In Curriculum Dev	2.98	3.31	3.18
Q21. How Effectively Trained In Use of Equipment	3.30	3.38	3.34
Q21. How Effectively Trained In Use of Software	3.21	3.21	3.21
Q22. How Much Follow-up and Assistance In Use of Tech in Instr	2.93	3.17	3.08
Q22. How Much Follow-up and Assistance In Pln and Dev Curric Units	2.85	3.11	3.01
Q22. How Much Follow-up and Assistance In Becoming Fam with Tech	3.05	3.25	3.17
Q22. How Much Follow-up and Assistance In Trn Students in Equip Use	2.76	2.90	2.85
Q22. How Much Follow-up and Assistance In Integ Use of Tech with Instr	3.04	3.13	3.10

Almost all these variables showed increases from last year to this one. For the percentage of students and teachers using computers in school, the increase was statistically significant.

Mean

	TIME		
	1.00	2.00	Total
Q23. Shared Products and Ideas at Conf	2.538	1.279	1.481
Q23. Shared Products and Ideas at In-Serv	3.467	1.667	1.967
Q23. Shared Products and Ideas at Informal Presentations	8.538	3.109	3.781
Q23. Shared Products and Ideas Other	.000	7.324	7.114
Q25. Partic in Project Impact on Student Inc Liking School	3.30	3.10	3.17
Q25. Partic in Project Impact on Imp Student Confidence as a Learner	3.24	3.18	3.20
Q25. Partic in Project Impact on Student Inc Interest in Tech	3.43	3.70	3.61
Q25. Partic in Project Impact on Imp St-Tchr Rapport	3.24	3.32	3.29
Q25. Partic in Project Impact on Inc Partic in Class	3.30	3.40	3.37
Q25. Partic in Project Impact on Imp Stud-Stud Coop	3.27	3.38	3.35
Q25. Partic in Project Impact on Other Improvement	3.00	2.86	2.87
Q26. Eff of Project in Communic with Team Members	3.17	3.24	3.22
Q26. Eff of Project in Communic Across Teams	2.97	3.03	3.01
Q26. Eff of Project in Motiv Tchrs to Use Tech	3.38	3.37	3.38
Q26. Eff of Project in Making Tech Avail	3.36	3.54	3.48
Q26. Eff of Project in Involv Tchrs in Proj Dec-Making	3.02	3.04	3.03
Q27. Invol in Project Improve Overall Teaching Effectiveness	3.77	3.45	3.56
Q27. Invol in Project Change Percept of Student Learning Abilities	3.43	3.29	3.33
Q27. Invol in Project Change Instructional Methods	3.70	3.49	3.56

Here, too there were many increases in a positive direction on the impact of the project on students and teachers, but none of these was statistically significant.